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- (A) Hair treatment composition comprising cysteine or a salt thereof.
- ② A hair treatment composition which comprises (A) 3 to 10% by weight, calculated as cysteine, of cysteine or its salt, (B) a saccharide or a polyhydric alcohol which has 4 to 20 carbon atoms, has 3 or more hydroxyl groups in the molecule, and which has no aldehyde group or ketone group, with the proportion by weight, (B)/(A) being less than 3.

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On the fifth day, the guinea pigs were evaluated.

Averages of the evaluations of the five guinea pigs which constituted the test group are shown in Table 2.

Evaluation standard:	
Same degree of redness as comparative product was observed	C
Less degree of redness than that observed with comparative product	B
Slight degree of redness was observed	A

Table 2

(% by weight)

	Invention	Comparative Product			
Components	4	6	5		
L-cysteine	6,0	6.0	6.0		
Ammonium thioglycolate	1.0	1.0	1.0		
EDTA • 4Na	0.5	0.5	0.5		
Monoethanolamine	<> Suitable amount*1>				
Sorbitol	5.0	10.0			
Water	<>				
Mildness to the skin	В	Α	C		

*1): Amount required to adjust pH to 9.0

Example 3:

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Using the compositions shown in Table 3, the presence or absence of flaking was determined. 50 microliters of each of the compositions were dropped on a transparent glass plate and allowed to dry. The conspicuousness of crystals was observed by the naked eye on a backscreen of black color. The results are shown in Table 3.

Evaluation:

Conspicuousness of crystals:

Slight: A Moderate: B

Very conspicuous: C

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Table 3

(% by weight)

						(% by weight)
5		Invention products			Comparative Product	
	Components	1	2	3 '	4	5
10	L-cysteine	6.0	6.0	6.0	6.0	6.0
	Ammonium thioglycolate	1.0	1.0	1.0	1.0	1.0
	EDTA•4Na	0.5	0.5	0.5	0.5	0.5
	Monoethanolamine	<> Suitable amount*1>				
15	Inositol	5.0	-			
	Saccharose		5.0	-		-
	Sodium gluconate	ı	1	5.0	1	•
20	Sorbitol	1	•	-	5.0	-
	Water	< Balance>			>	
25	Conspicuousness of crystals	В	· A	A	В	С

(1): Amount required to adjust pH to 9.0

Having now fully described the invention, it will be apparent to one of ordinary skill in the art that many changes and modifications can be made thereto without departing from the spirit or scope of the invention as set forth herein.

Claims

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- 1. A hair treatment composition, which comprises:
 - (A) 3 to 10% by weight, calculated as cysteine, of cysteine or a salt thereof, and
 - (B) a saccharide or a polyhydric alcohol which has 4 to 20 carbon atoms, has 3 or more hydroxyl groups in the molecule, and which has no aldehyde group or ketone group, the proportion by weight, (B)/(A) being less than 3.
- The hair treatment composition according to Claim 1, wherein said component (B) is selected from the group consisting of aldonic acids, saccharic acids, sugar alcohols, condensed saccharides and cyclic polyhydric alcohols.
- The hair treatment composition according to Claim 1, wherein said component (B) is selected from the group consisting of sorbitol, mannitol, maltitol, xylitol, saccharose, gluconic acid or its salts and inositol.
- 4. The hair treatment composition according to Claim 1, wherein the amount of said component (B) is 0.5 to 20% by weight based upon the total composition.
 - The hair treatment according to Claim 1, wherein said hair treatment composition is a permanent wave agent or a set lotion.
- 6. The hair treatment composition according to Claim 5, which optionally comprises a chelating agent and a base.

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	DOCUMENTS CONS	SIDERED TO BE RELEV	ANT		
Category	Citation of document with of relevant	indication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CL5)	
X	US-A-4 947 878 (CREWS * abstract * column 4, line 26 - column 5, line 45 -	H.R. ET AL.)	1-6	A61K7/09	
^	DE-A-3 022 049 (GUREIS	SU KAGAKU K. K.)	1-6		
^	EP-A-0 302 265 (WELLA * page 3, line 10 - 16 * page 4, line 2 - lin	ine 20 *	1-6		
A D	EP-A-0 320 612 (MELLA * page 2, 11me 36 ~ 11 & JP-A-2 502 539	•	1-6		
	FR-A-2 348 695 (KYOMA * the whole document * & JP-A-52 128 241	HAKKO KOGYO K,K,)	1-6		
	-			TECHNICAL FIELDS SEARCHED (Int. CL5)	
				A61K	
	The present search report has b	oca drawa up for all claims	_		
	Place of search	Date of completion of the search	1	President	
BERLIN 06 MARCH 1992		AVEDI	AVEDIKIAN P.F.		
X : perticularly relevant if taken alone Y : perticularly relevant if combined with snother B : document of the same extegery A : technological background		ng date ted in the application ad for other reasons	te underlying the invention sament, but published on, or to a the application w other reasons une patent family, corresponding		

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